

ABSTRACT OF THE DISCLOSURE

2 A method for production of mixed alcohols by using a sulfided transition metal catalyst
3 selected from Group VI metals; nano-sizing the metal catalyst during its synthesis; suspending
4 the catalyst in solvents to form a slurry; adding, a sulfur containing material to extend catalyst
5 life; and contacting this slurry with carbon monoxide and hydrogen at 200 - 325°C and 500 -
6 3000 psig pressure.

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